Table of Contents

Sheet 1A	You Are Here	
Sheet 1B	Dig Dug Upright Wiring Diagram (038294-01 B)	
Sheet 2A	Dig Dug Cocktail Wiring Diagram (038377-01 A)	
Sheet 2B	Dig Dug Cabaret Wiring Diagram (038391-01 A)	
Sheet 3A	Color Raster-Scan Power Supply Wiring Diagram (037669-01 C) Regulator/Audio II PCB Schematic Diagram (035435-01 F)	σ :
Sheet 3B	Upright and Cabaret Coin Door Wiring Diagram (037542-01 C) Cocktail Coin Acceptor Wiring Diagram (036597-01 D) Utility Panel Wiring Diagram (038004-01 B) Fluorescent Light and Speaker Wiring Diagram (035833-01 A)	schematics.
	Game PCB Schematics (038575-XX B), Sheets 3A—9A	
Sheet 4A	Power Input, Clock, NMI, Watchdog, and Memory Map	
Sheet 4B	1st Priority CPU, 2nd Priority CPU	
Sheet 5A	3rd Priority CPU, Address Decoder	(
Sheet 5B	Switch Inputs, Coin Door and Control Panel Outputs	
Sheet 6A	Audio	
Sheet 6B	Sync Generator	
Sheet 7A	Playfield Generator	
Sheet 7B	Motion Object RAM, Motion Object Address Generator, Decoder and Match Line Flag	
Sheet 8A	Motion Object Generator	
Sheet 8B	Video Output, Video Color Controller	
Sheet 9A	High-Score Table	
Sheet 9B	Electrohome 19-Inch Color Raster-Scan Video Display Schematic Diagram	

Schematic Package Supplement to

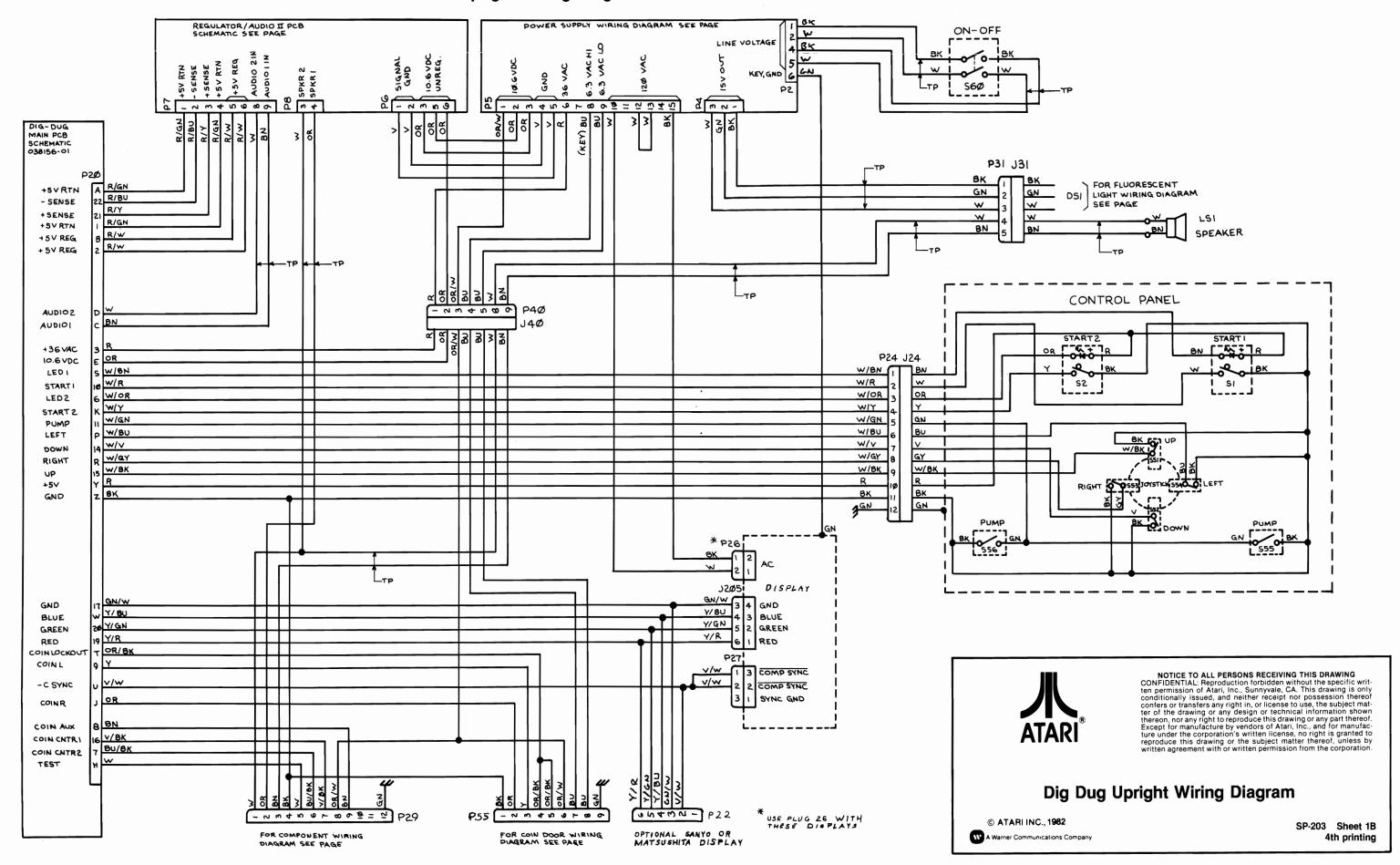


Operation, Maintenance and Service Manual

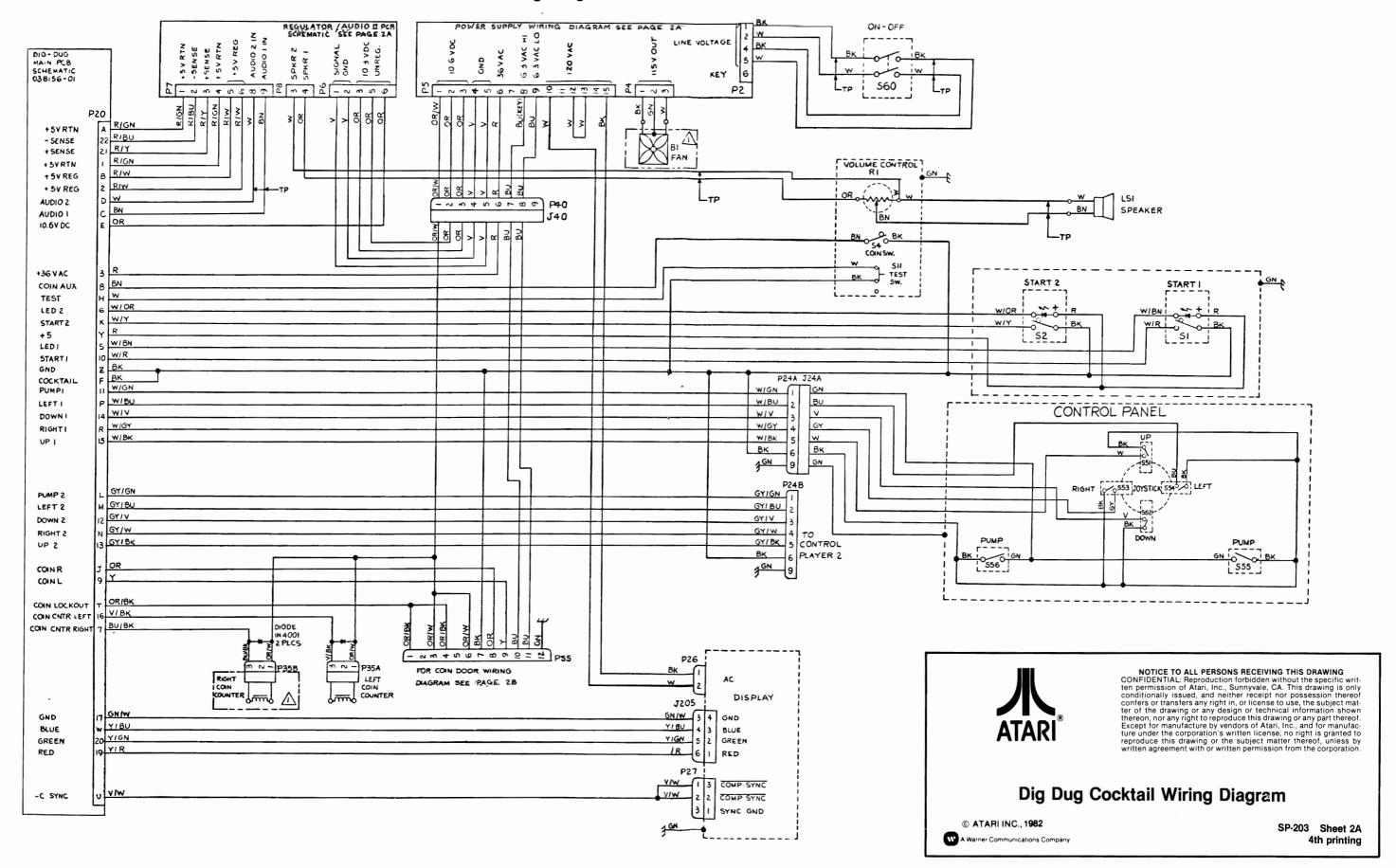


© ATARI INC. 1982

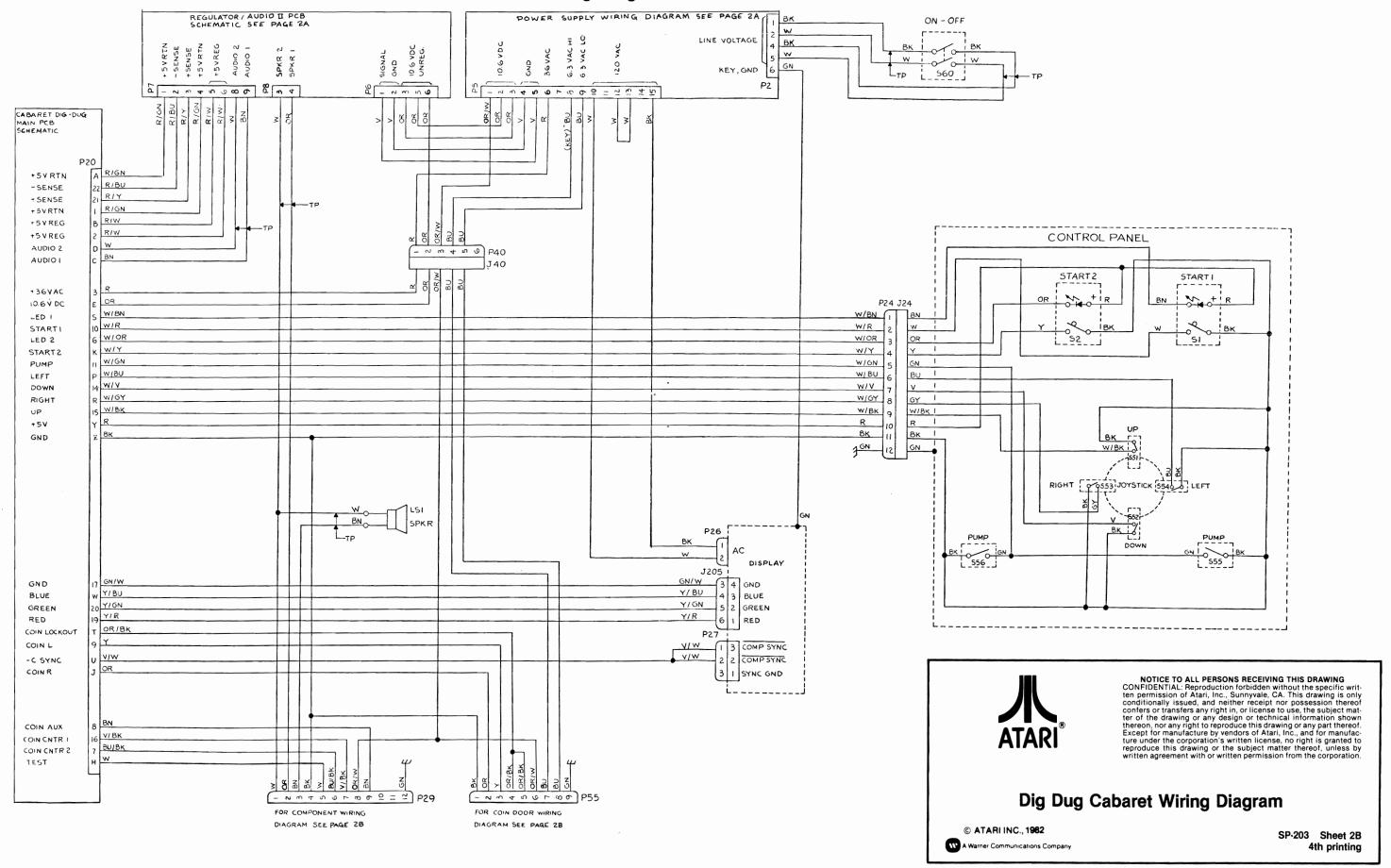
Upright Wiring Diagram



Cocktail Wiring Diagram

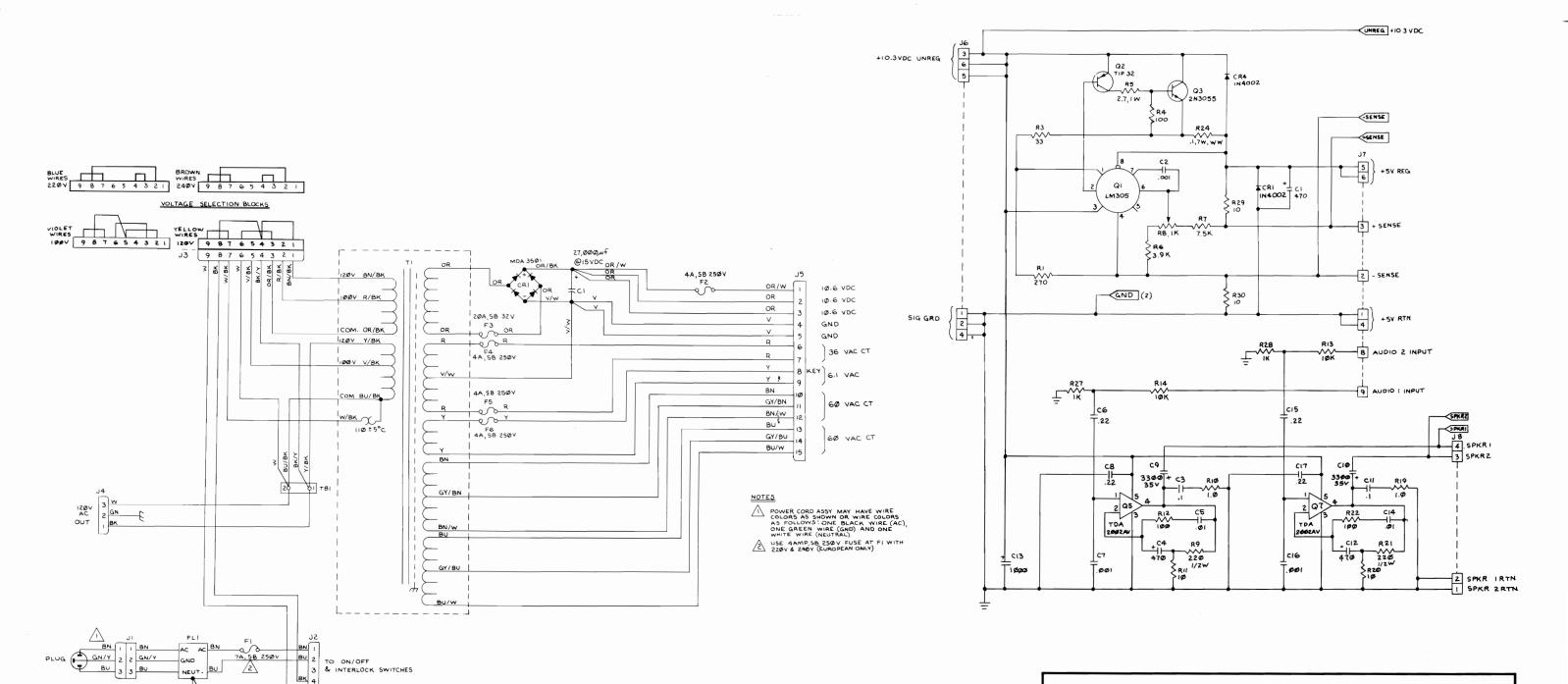


Cabaret Wiring Diagram



Color Raster Power Supply Wiring Diagram

Regulator/Audio II PCB Schematic Diagram





NOTICE TO ALL PERSONS RECEIVING THIS DRAWING CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Dig Dug Power Supply and Reg./Audio II PCB

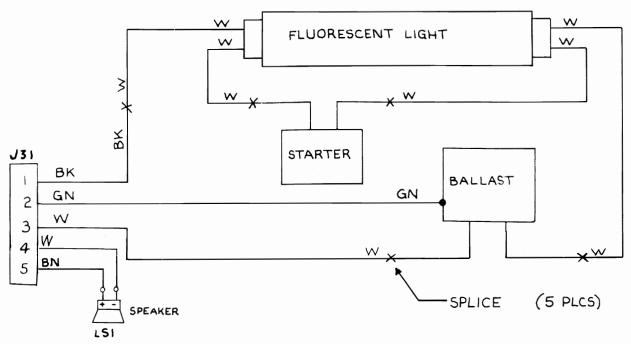
© ATARI INC., 1982

W A Warner Communications Company

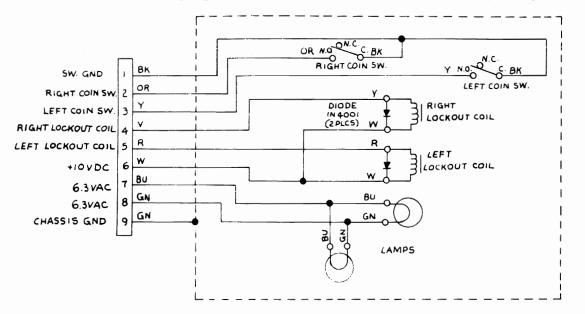
SP-203 Sheet 3A 4th printing

Utility Panel Wiring Diagram VOLUME CONTROL J29 2 OR TEST SW 3 BN W/BK 5 W/BK BU 8 OR/W √ BK DIODE IN 4001 P35A (1 2 3) (2 PLC5) (123)P35B COIN SW LEFT RIGHT COIN COUNTER COIN COUNTER

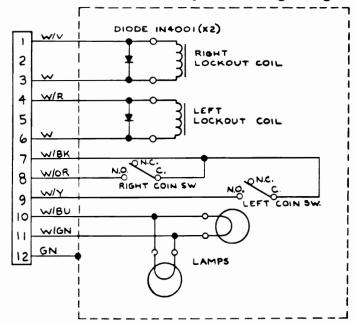
Fluorescent Light and Speaker Wiring Diagram



Upright and Cabaret Coin Door Wiring Diagram



Cocktail Coin Acceptor Wiring Diagram



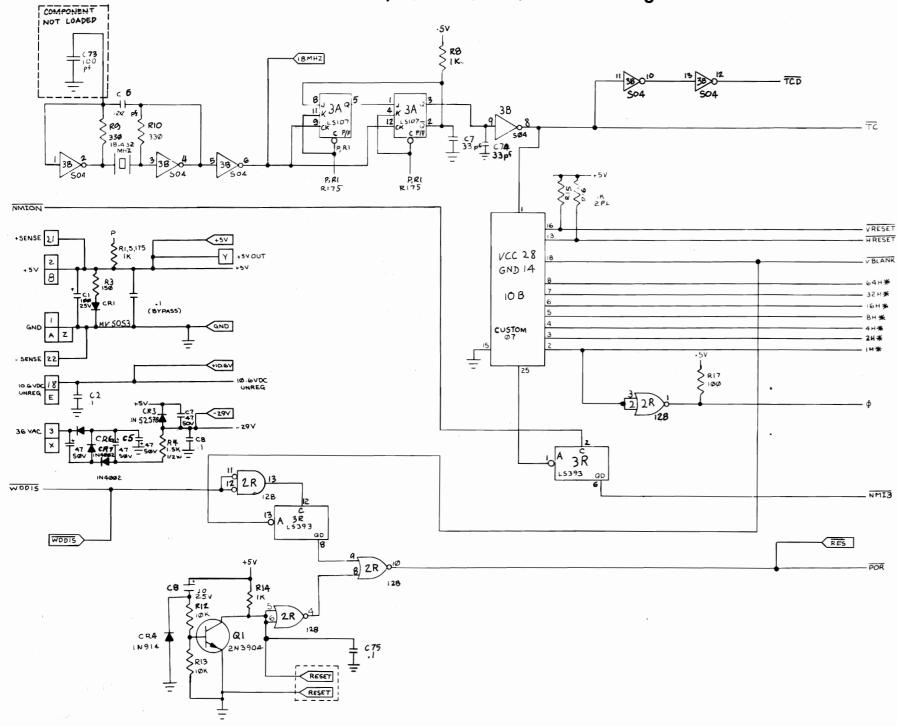


NOTICE TO ALL PERSONS RECEIVING THIS DRAWING CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Dig Dug Game Wiring Interfaces

© ATARI INC., 1982 A Warner Communications Company SP-203 Sheet 3B 4th printing

Power Input, Clock, NMI, and Watchdog



MEMORY MAP

HEXA- DECIMAL	R/W	DATA								FUNCTION
ADDRESS		D7	D6	D5	D4	D3	D2	D1	D0	
0000-3FFF	R	D	D	D	D	D	D	D	D	1st Priority Z80 CPU ROM (16K)
0000-1FFF	R	D	D	D	D	D	D	D	D	2nd Priority Z80 CPU ROM (8K)
0000-0FFF	R	D	D	D	D	D	D	D	D	3rd Priority Z80 CPU ROM (4K)
6800-680F 6810-681F	W					D D	D D	D D	D D	Audio Control Audio Control
6820 6821 6822 6823 6825 6826 6827	\$ \$ \$ \$ \$ \$								00000	0 = Reset IRQ1 (Latched) 0 = Reset IRQ2 (Latched) 0 = Enable NMI3 (Latched) 0 = Reset 2nd and 3rd Z80 CPUs (Latched) Custom Chip 53 Mode Control (Latched) Custom Chip 53 Mode Control (Latched) Custom Chip 53 Mode Control (Latched)
6830	W									Watchdog Reset
7000 7100	R/W R/W	D D	D D	D D	D D	D D	D D	D D	D D	Custom Chip 06—Data Custom Chip 06—Command
8000-87FF	R/W	D	D	D	D	D	D	D		2K Playfield RAM
8B80-8BFF 9380-93FF 9B80-9BFF	R/W R/W R/W	D D	D D	D D D	D D D	D D D	D D D	D D D	D D	1K Motion RAM (PIC, COLOR) 1K Motion RAM (VPOS, HPOS) 1K Motion RAM (FLIP)
A000 A001 A002 A003 A004 A005 A007	\$ \$ \$ \$ \$ \$ \$ \$ \$								D D D D D	Playfield Select (Latched) Playfield Select (Latched) Alphanumeric Color Select (Latched) Playfield Enable (Latched) Playfield Color Select (Latched) Playfield Color Select (Latched) Flip Video
B800-B83F B800 B840	W R W	D D	D D	D D	D D	D D D	D D D	D D	D D D	Write EAROM Address and Data Read EAROM Data Write EAROM Control



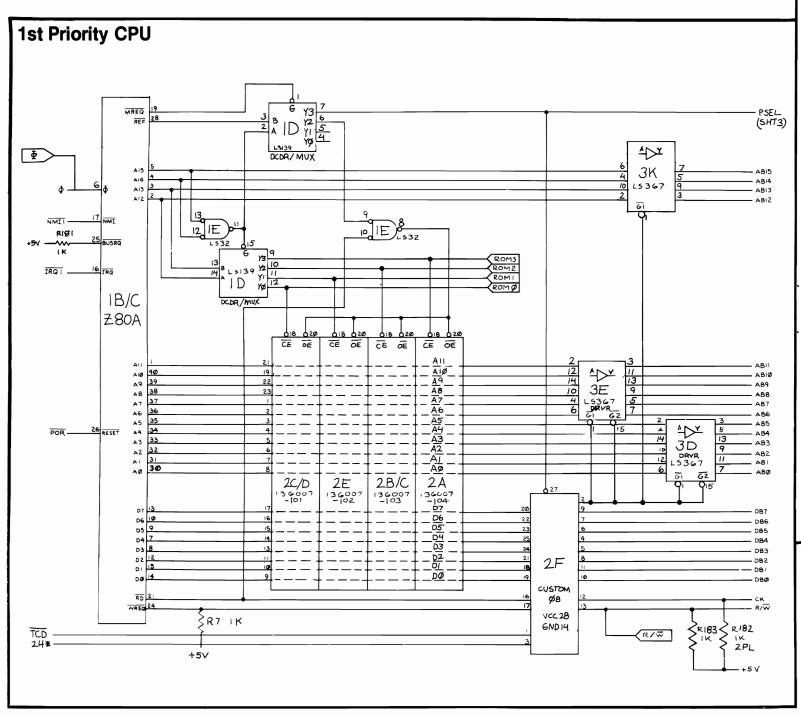
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

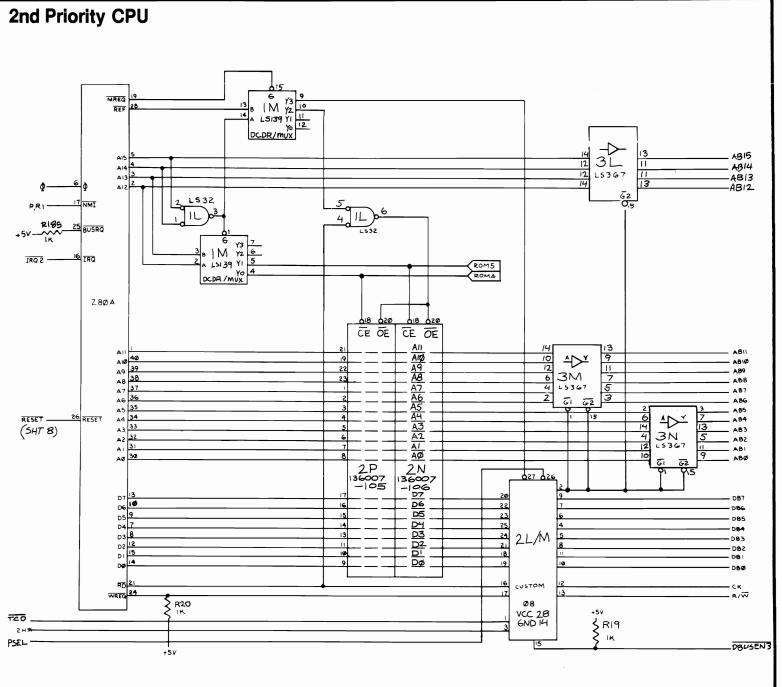
Dig Dug Game PCB Schematic Diagram

© ATARI INC., 1982

A Warner Communications Company

SP-203 Sheet 4A 4th printing

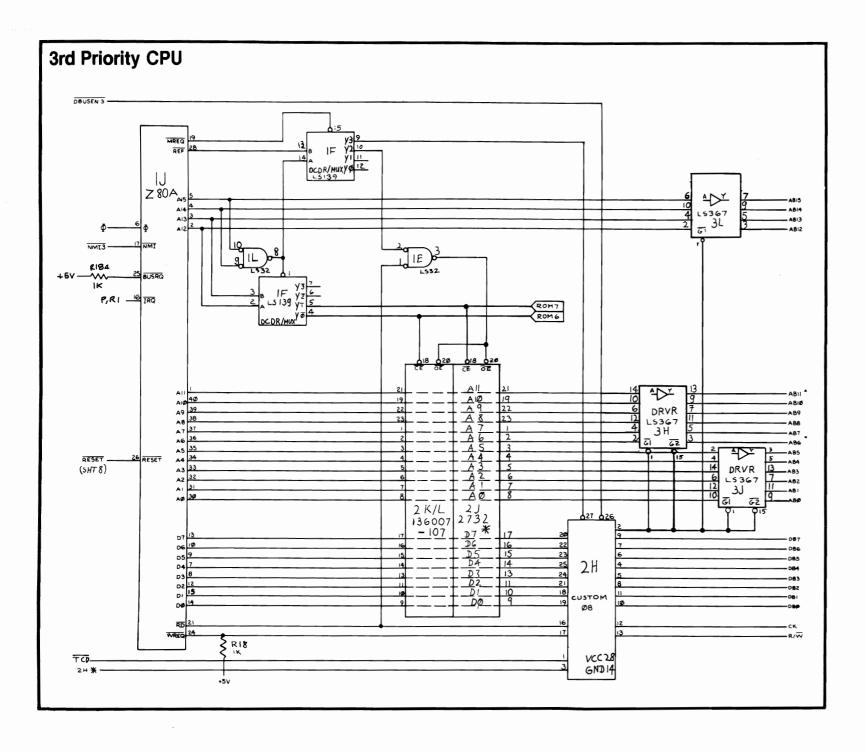


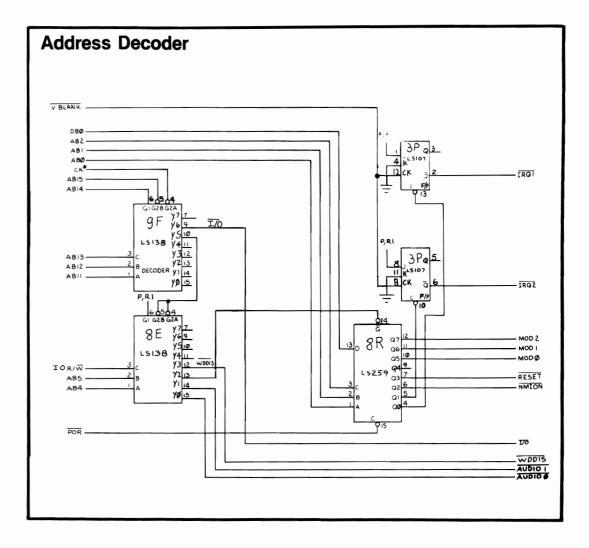




Dig Dug Game PCB Schematic Diagram

© ATARI INC., 1982 A Warner Communications Company SP-203 Sheet 4B 4th printing



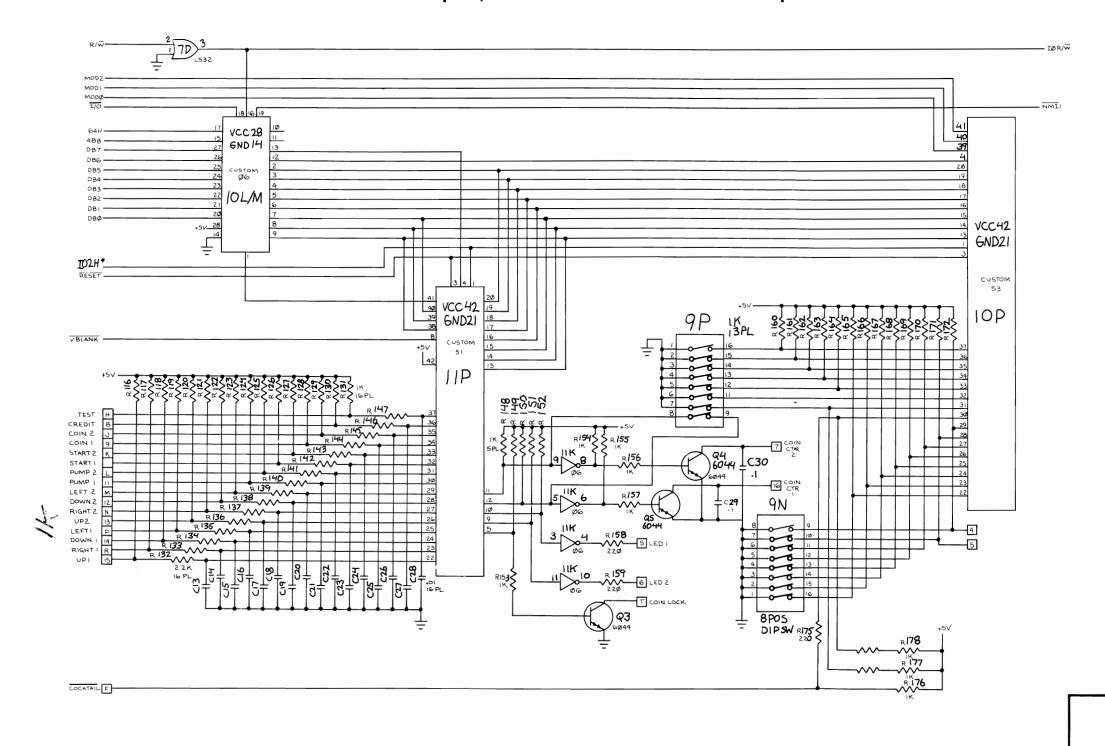




Dig Dug Game PCB Schematic Diagram

© ATARI INC., 1982 A Warner Communications Company SP-203 Sheet 5A 4th printing

Switch Inputs, Coin Door and Control Panel Outputs





NOTICE TO ALL PERSONS RECEIVING THIS DRAWING CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

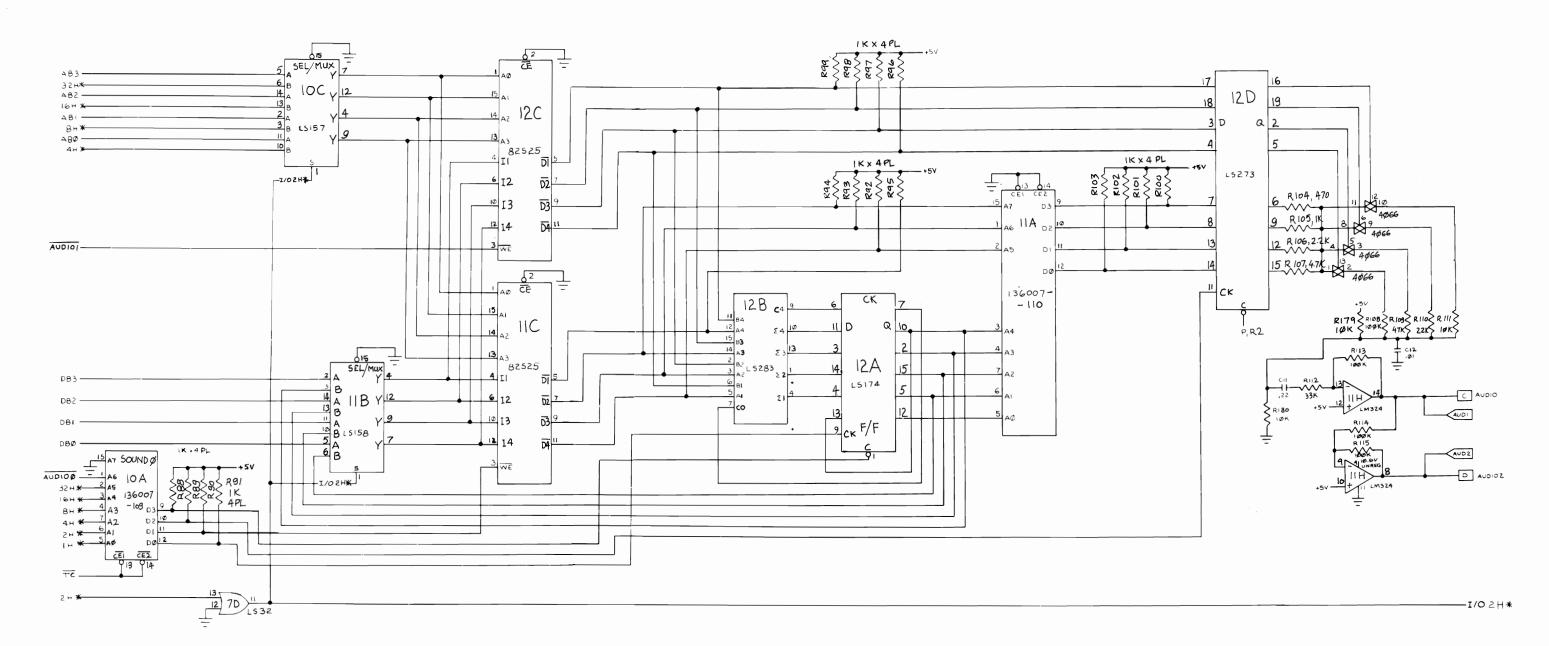
Dig Dug Game PCB Schematic Diagram

© ATARI INC., 1982

A Warner Communications Company

SP-203 Sheet 5B 4th printing

Audio

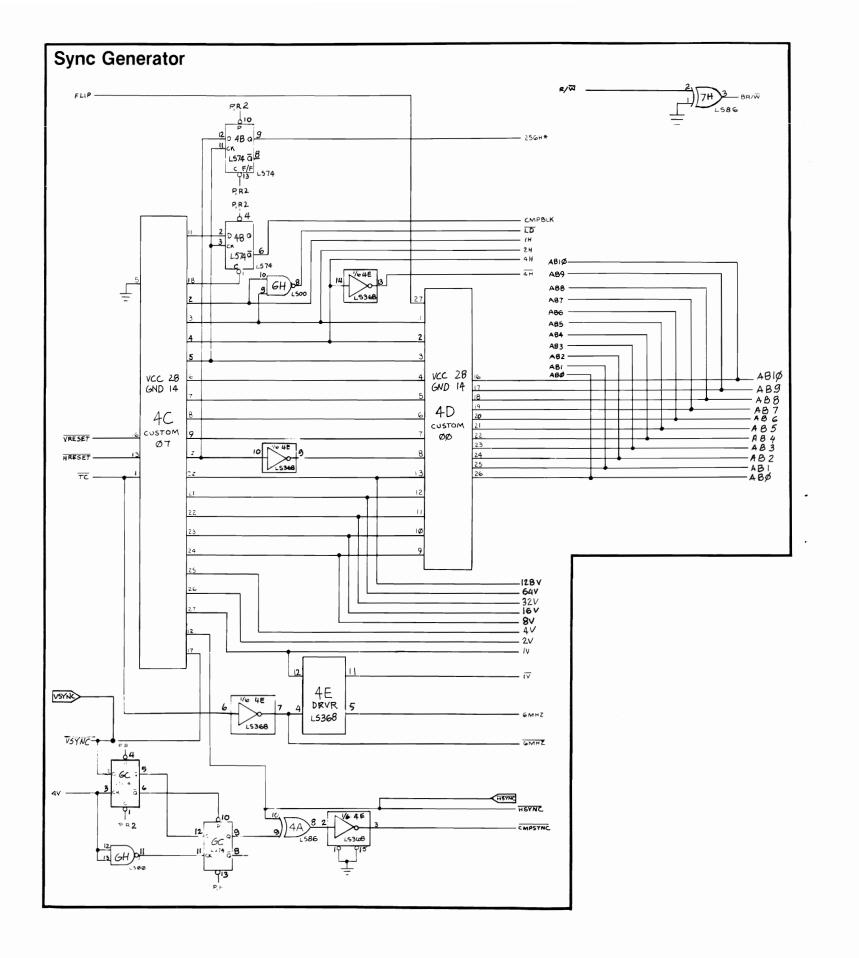




NOTICE TO ALL PERSONS RECEIVING THIS DRAWING CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Dig Dug Game PCB Schematic Diagram

© ATARI INC., 1982 W A Warner Communications Company SP-203 Sheet 6A 4th printing





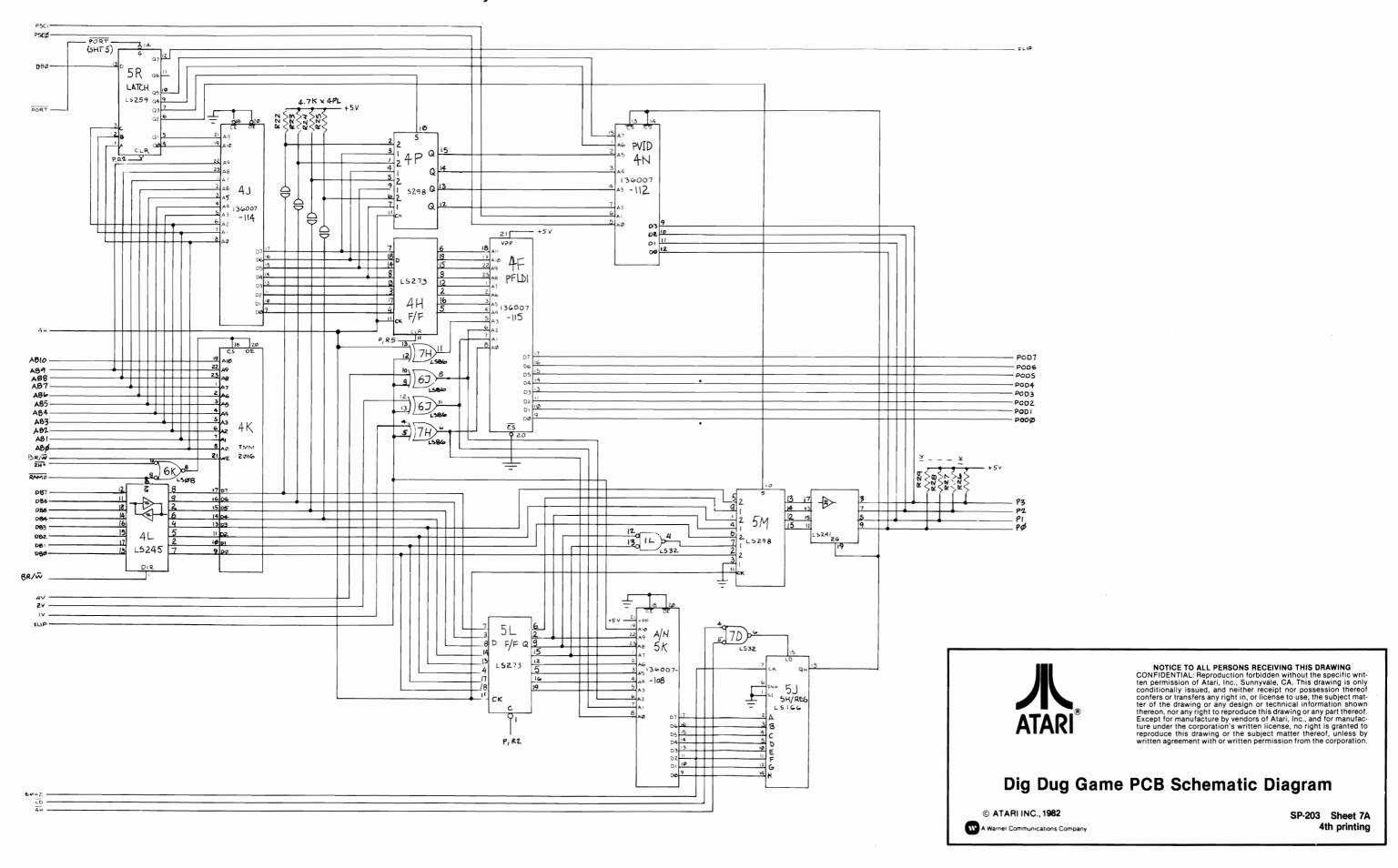
Dig Dug Game PCB Schematic Diagram

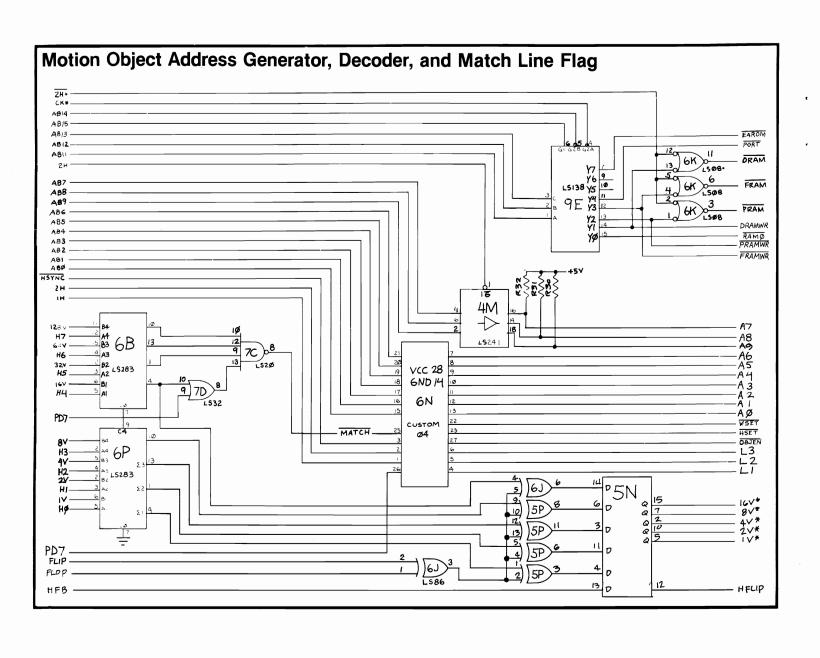
© ATARI INC., 1982

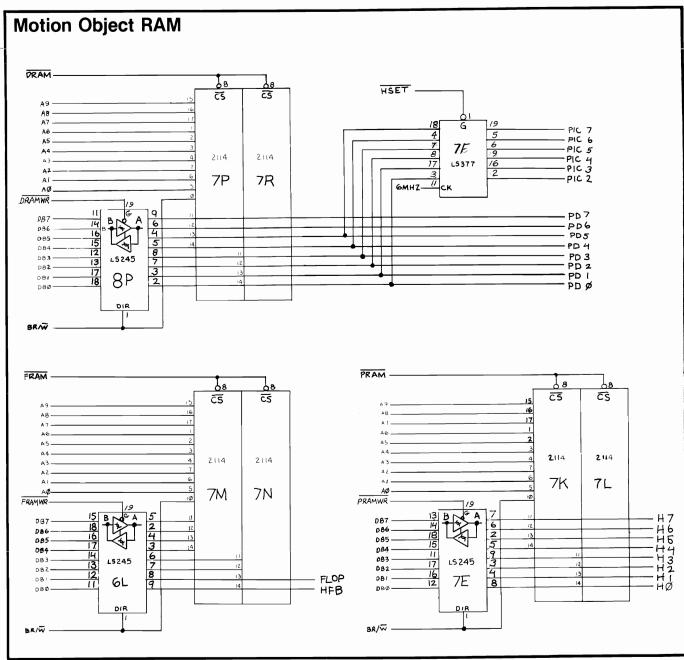
SP-203 Sheet 6B 4th printing

A Warner Communications Company

Playfield Generator







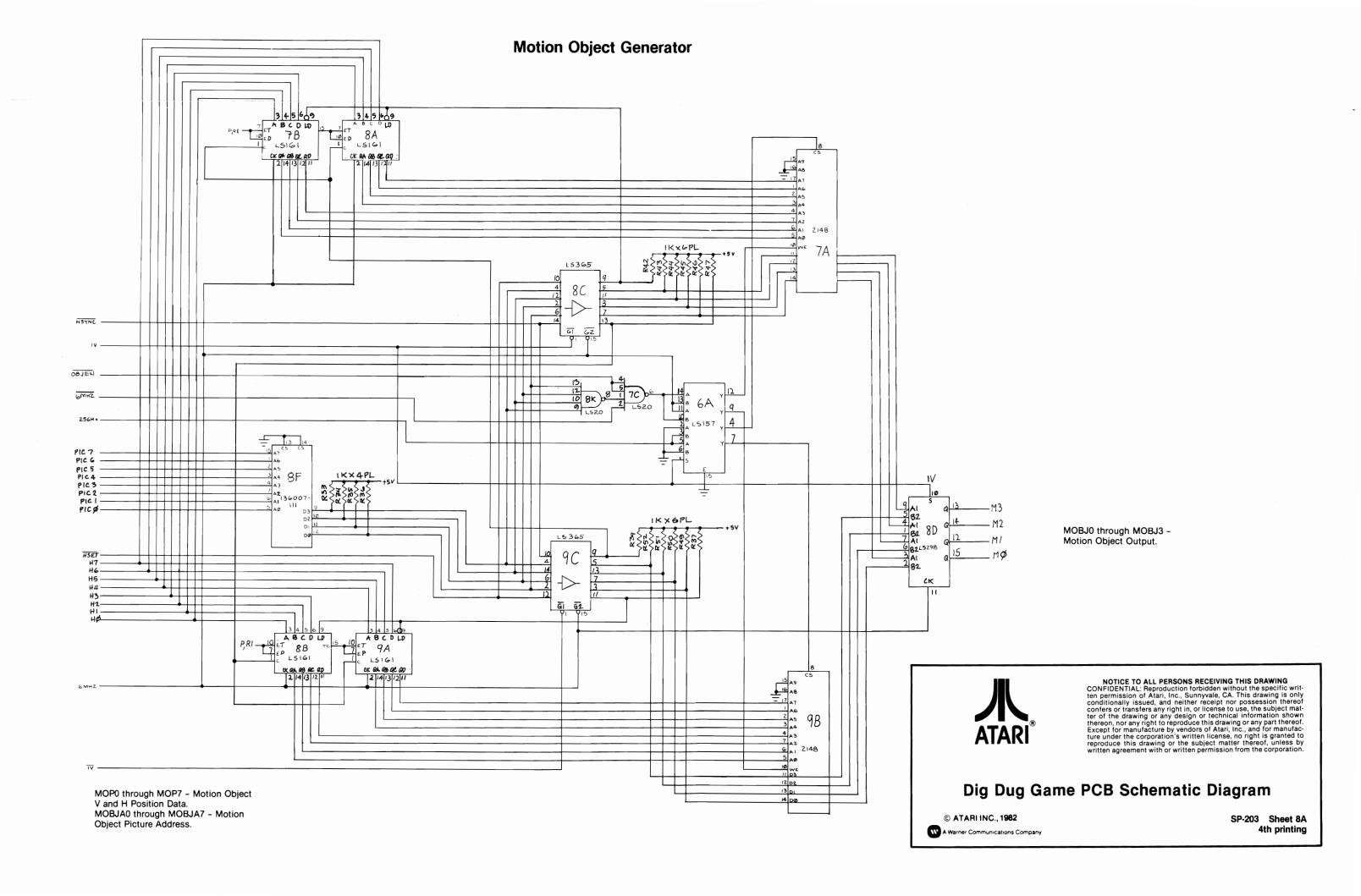


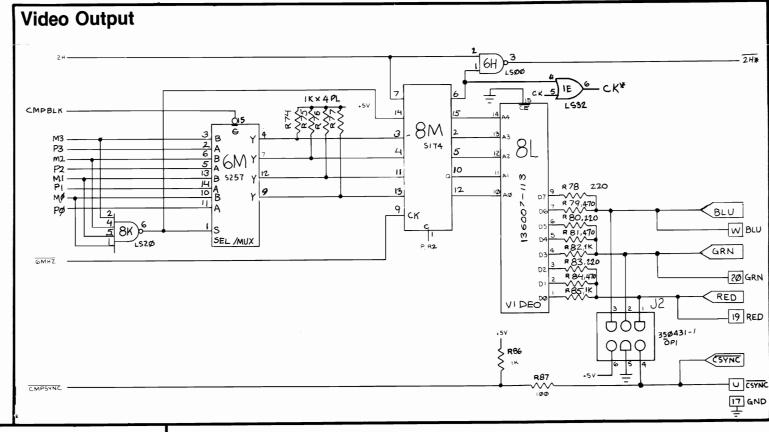
Dig Dug Game PCB Schematic Diagram

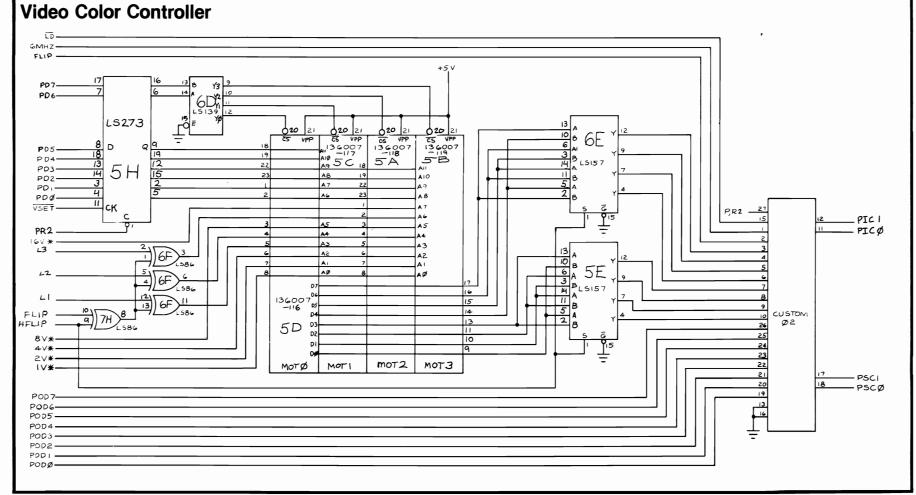
© ATARI INC., 1982

Warner Communications Company

SP-203 Sheet 7B 4th printing



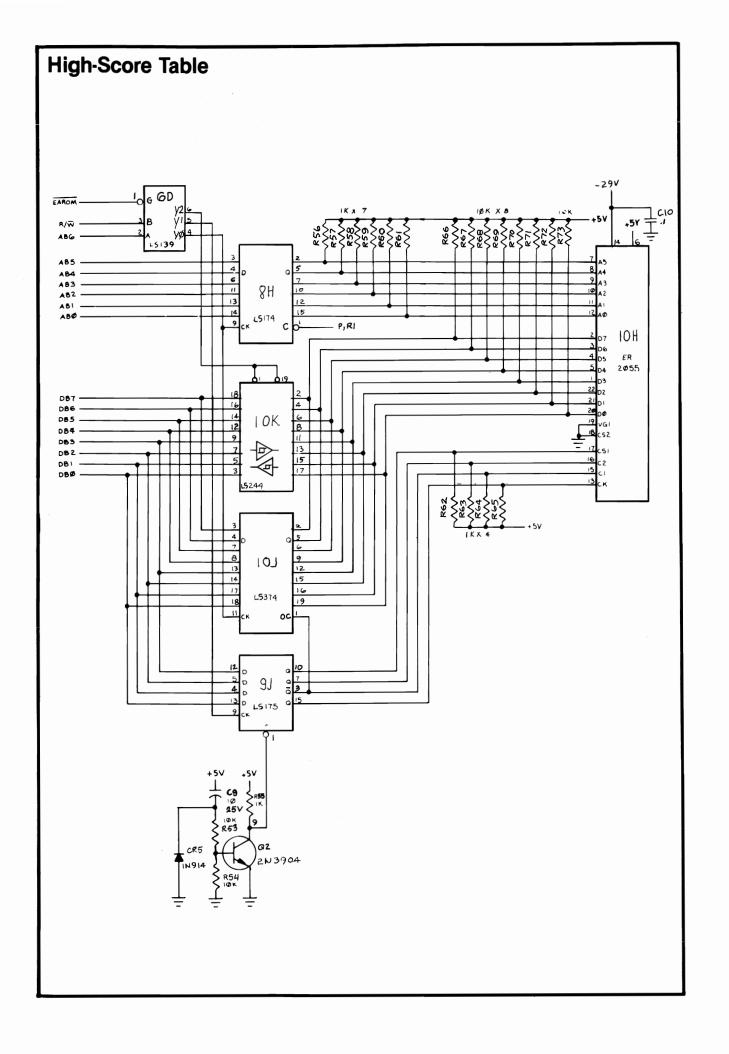






Dig Dug Game PCB Schematic Diagram

© ATARI INC., 1982 W A Warner Communications Company SP-203 Sheet 8B 4th printing





Dig Dug Game PCB Schematic Diagram

© ATARI INC., 1982

W A Warner Communications Company

SP-203 Sheet 9A 4th printing

Color Display Schematic Diagram Schematic Notes Unless otherwise specified Resistance: (Ω) (K \rightarrow K Ω , M \rightarrow M Ω), 1/4 (W) carbon resistor Capacitance: 1 or higher \rightarrow (pF), less than 1 \rightarrow (pF) Blug GREEN RED XIO1.XIO3 and XIO5 VIDEO AMP. 2SC454C working voltage → 50 (V) XIOI~XIO3 R.G.B VIDEO OUTPUT ceramic capacitor Inductance: (rH) Electrolytic Cap: Capacitance Value (yF)/working voltage (V), NP - non-polar (or bipolar) electrolytic cap. R319 X 302 Refer to the parts list for additional component information. X301 indicates test point connection indicates chassis ground unless otherwise specified C303 Hz indicates cycles per second C304 X103 For safety purposes (and continuing reliability) replace all components marked with safety symbol with X301,X302,X305,X306 SU-30**32**A SYNC AMP 2SC454C or 28CI685 G CUT OFF identical type. R313 4.7K **₹** CRT SOCKET NOTE: FR → fusible resistor (— [**] Ŧ G DRIVE RIO6 NEGA TIVE H. SYNC Parts identification on circuit boards: e.g. SU1126A (R107 = R1107) SU3030A (R113 = R3113) R121 #128 390 X303 BEAM LIMITER 2SA673 NEGA TIVE V. SYNC -02 X304 BLANKING 25C454C or 25C/685 XIO6 X303 X 901 POWER DRIVE 2SC 2688 X 902 ERROR AMP 2 SC 1890 D301 IS2473H R311 XO4 2SCIIO6A, 2SCI454 POWER REGULATOR 100/18 0402 FIRM 1.033 MY ROI-220 25W5 UNF. R WARNING -X402 1407 4.7K 9 F901 Components identified by shading X401, X402 250478 X902 have special characteristics important to 10 6.8 IW CMF safety and should be replaced only with R904 IOK 2W 1400 2000 identical types. 100 IC 501 HA11244 V. LIN V.HEIGHT 0 FOCUS Bas 0 T.6300 ... ₹8506 560 #C511 NOTICE TO ALL PERSONS RECEIVING THIS DRAWING CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, CA. This drawing is only conditionally issued, and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing or any part thereof. Except for manufacture by vendors of Atari, Inc., and for manufacture with the formation. R522 0804 4.7 IW V09-E H.FREQ V. HOLD I OK |BH |80V TH-DYOI DEFLECTION ture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation. R827 8.2K 1/28 SU-1133A MAIN PCB ASSY

10 CRT HEATER

X501 H.DRIVE 2SC1507 ∰D, 2SC237IV 2SC2611 or 2SC2610BK 2SD869 or

2\$0820

X701 X-RAY PROTECTOR

2SC454C or 2SCI685

⊚ ⊚

ACIZOV 60Hz/50Hz

Dig Dug Color Display Schematic Diagram

© ATARI INC., 1982 A Warner Communications Company

SP-203 Sheet 9B 4th printing